Format of Noisefile Flight Data (FLIGHT01.DAT) File

This ASCII text file describes the format of the Noisefile flight data file which is the input to the OMEGA 10 program. These flight data consist of one dataset for each aircraft or helicopter power condition in Noisefile. Each dataset contains five records; the format of these records is described below. A typical aircraft will have from four to six power conditions. The maximum number of power conditions permitted in the OMEGA 10 program is currently fifteen.

Record Number 1

Column	Format	Description
1-8	A8	"MILITARY" or "CIVILIAN"
9	Blank	
10	A1	"F" for flight data
11	A1	"M" for military or "C" for civilian aircraft
12-16	A5	aircraft ID
17-18	A2	operation power code
19	A1	operation type code
20	A1	interpolation code (F for FIXED, P for PARALLEL, V for VARIABLE)

Record Number 2

Column	Format	Description
1-20	A20	aircraft name (Max 20 characters)
21-40	A20	engine name (Max 20 characters)
41-42	I2	number of engines
43	Blank	
44-68	A25	drag configuration (Max 25 characters)
69-78	A10	"MEASURED" or "ESTIMATED" for measured or estimated data
79-90	A12	source of data (Country etc.)
91-101	A11	date of the last data update (DA MON YEAR; e.g.,18 SEP 1996)
102-106	I5	normalized slant range in feet
107	Blank	
108-109	A2	"FT"
110-114	I5	normalized airspeed in Knots
115	Blank	
116-118	A3	"KTS"
119-120	Blank	
121-123	I3	standard day temperature in degrees Fahrenheit
124	Blank	
125	A1	"F"
126-127	Blank	
128-130	I3	standard day relative humidity in percent
131	Blank	
132-134	A3	"PCT"

Record Number 3

Column	Format	Description
1-20	A20	operation power description (Max 20 characters)
21-29	F9.2	1st power setting value (right justified)
30	Blank	
31-40	A10	1st power setting units (left justified)
41	Blank	
42-50	F9.2	1st power setting lower limit (right justified)
51-59	F9.2	1st power setting upper limit (right justified)
60-68	F9.2	2nd power setting value (right justified)
69	Blank	
70-79	A10	2nd power setting units (left justified)
80	Blank	
81-89	F9.2	2nd power setting lower limit (right justified)
90-98	F9.2	2nd power setting upper limit (right justified)
99-107	F9.2	3rd power setting value (right justified)
108	Blank	
109-118	A10	3rd power setting units (left justified)
119	Blank	
120-128	F9.2	3rd power setting lower limit (right justified)
129-137	F9.2	3rd power setting upper limit (right justified)

Record Number 4

Column	Format	Description
1-4	I4	number of microphone locations for this power setting
5-10	F6.1	mean directivity angle Theta in degrees
11-16	F6.1	mean PNL in PNdB
17-22	F6.1	mean PNLT in PNdB
23-28	F6.1	mean AL in dBA
29-34	F6.1	mean ALT in dBA
35-40	F6.1	mean EPNL in EPNdB
41-46	F6.1	mean SEL in dB
47-52	F6.1	mean SELT in dB
53-58	F6.1	mean C in dB (tone correction)

Record Number 5

Column	Format	Description
1-124	31(I4)	mean SPL levels in dB re .00002 N/M^2 for frequency bands 10 through 40

Notes: (1) The SPL levels are to the nearest tenth without the decimal. They can be read as F4.1.